

# Zhenyu J Zhang

## List of Publications by Citations

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55  
papers

824  
citations

16  
h-index

27  
g-index

58  
ext. papers

1,003  
ext. citations

4.7  
avg, IF

4.33  
L-index

#	Paper	IF	Citations
55	Low Salinity Waterflooding in Carbonate Reservoirs: Review of Interfacial Mechanisms. <i>Colloids and Interfaces</i> , <b>2018</b> , 2, 20	3	86
54	Graphite and Hybrid Nanomaterials as Lubricant Additives. <i>Lubricants</i> , <b>2014</b> , 2, 44-65	3.1	70
53	Effect of brush thickness and solvent composition on the friction force response of poly(2-(methacryloyloxy)ethylphosphorylcholine) brushes. <i>Langmuir</i> , <b>2011</b> , 27, 2514-21	4	70
52	Effect of Salt on Phosphorylcholine-based Zwitterionic Polymer Brushes. <i>Langmuir</i> , <b>2016</b> , 32, 5048-57	4	58
51	The polymer physics and chemistry of microbial cell attachment and adhesion. <i>Faraday Discussions</i> , <b>2008</b> , 139, 85-103; discussion 105-28, 419-20	3.6	52
50	Directed single molecule diffusion triggered by surface energy gradients. <i>ACS Nano</i> , <b>2009</b> , 3, 3235-43	16.7	36
49	Nanoscale contact mechanics of biocompatible polyzwitterionic brushes. <i>Langmuir</i> , <b>2013</b> , 29, 10684-92	4	29
48	Mechanisms of Surface Charge Modification of Carbonates in Aqueous Electrolyte Solutions. <i>Colloids and Interfaces</i> , <b>2019</b> , 3, 62	3	28
47	Biocompatible polymer brushes grown from model quartz fibres: synthesis, characterisation and in situ determination of frictional coefficient. <i>Soft Matter</i> , <b>2010</b> , 6, 1571	3.6	27
46	Nanoscale Contact Mechanics between Two Grafted Polyelectrolyte Surfaces. <i>Macromolecules</i> , <b>2015</b> , 48, 6272-6279	5.5	25
45	Enzyme-responsive polyion complex (PIC) nanoparticles for the targeted delivery of antimicrobial polymers. <i>Polymer Chemistry</i> , <b>2016</b> , 7, 2684-2690	4.9	21
44	Solvent-Free cycloaddition of carbon dioxide and epichlorohydrin catalyzed by surface-attached imidazolium-type poly(ionic liquid) monolayers. <i>Journal of CO2 Utilization</i> , <b>2020</b> , 38, 168-176	7.6	20
43	Frictional properties of a polycationic brush. <i>Soft Matter</i> , <b>2014</b> , 10, 2759-66	3.6	19
42	Aggregation of model asphaltenes: a molecular dynamics study. <i>Journal of Physics Condensed Matter</i> , <b>2016</b> , 28, 394002	1.8	19
41	Effect of extracellular polymeric substances on the mechanical properties of <i>Rhodococcus</i> . <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2015</b> , 1848, 518-26	3.8	18
40	Quantifying mineral surface energy by scanning force microscopy. <i>Journal of Colloid and Interface Science</i> , <b>2016</b> , 472, 237-46	9.3	16
39	Hot melt extrusion of heat-sensitive and high melting point drug: Inhibit the recrystallization of the prepared amorphous drug during extrusion to improve the bioavailability. <i>International Journal of Pharmaceutics</i> , <b>2019</b> , 565, 316-324	6.5	15

38	The mechanics of nanometre-scale molecular contacts. <i>Faraday Discussions</i> , <b>2012</b> , 156, 325-41; discussion 413-34	3.6	14
37	Enhancement of the apparent solubility and bioavailability of Tadalafil nanoparticles via antisolvent precipitation. <i>European Journal of Pharmaceutical Sciences</i> , <b>2019</b> , 128, 222-231	5.1	13
36	Determination of the molar mass of surface-grafted weak polyelectrolyte brushes using force spectroscopy. <i>Polymer</i> , <b>2015</b> , 67, 111-117	3.9	12
35	Cabazitaxel liposomes with aptamer modification enhance tumor-targeting efficacy in nude mice. <i>Molecular Medicine Reports</i> , <b>2019</b> , 19, 490-498	2.9	12
34	The interfacial behaviour of single poly(N,N-dimethylacrylamide) chains as a function of pH. <i>Nanotechnology</i> , <b>2008</b> , 19, 035505	3.4	11
33	Adsorption of Fibronectin Fragment on Surfaces Using Fully Atomistic Molecular Dynamics Simulations. <i>International Journal of Molecular Sciences</i> , <b>2018</b> , 19,	6.3	11
32	Adhesive and conformational behaviour of mycolic acid monolayers. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2010</b> , 1798, 1829-39	3.8	10
31	The Counterion Effect of Imidazolium-Type Poly(ionic liquid) Brushes on Carbon Dioxide Adsorption. <i>ChemPlusChem</i> , <b>2019</b> , 84, 281-288	2.8	10
30	Chemical and mechanical modulation of polymeric micelle assembly. <i>Nanoscale</i> , <b>2017</b> , 9, 5194-5204	7.7	9
29	Salt Dependence of the Tribological Properties of a Surface-Grafted Weak Polycation in Aqueous Solution. <i>Tribology Letters</i> , <b>2018</b> , 66, 11	2.8	9
28	Bioink Formulations for Bone Tissue Regeneration. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2021</b> , 9, 630488	5.8	9
27	Morphological and quantitative frictional measurements of cotton fibres using friction force microscopy. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 8531		8
26	Graphene oxide substrates with N-cadherin stimulates neuronal growth and intracellular transport. <i>Acta Biomaterialia</i> , <b>2019</b> , 90, 412-423	10.8	7
25	Interaction of hydraulic calcium silicate and glass ionomer cements with dentine. <i>Materialia</i> , <b>2020</b> , 9, 100515	3.2	7
24	Experimental and computational examination of anastellin (FnIII1c)-polymer interactions. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2017</b> , 105, 737-745	5.4	6
23	Using Acetone/Water Binary Solvent to Enhance the Stability and Bioavailability of Spray Dried Enzalutamide/HPMC-AS Solid Dispersions. <i>Journal of Pharmaceutical Sciences</i> , <b>2021</b> , 110, 1160-1171	3.9	6
22	A matched irrigation and obturation strategy for root canal therapy. <i>Scientific Reports</i> , <b>2021</b> , 11, 4666	4.9	6
21	Influence of Cobalt Ions on Collagen Gel Formation and Their Interaction with Osteoblasts. <i>ACS Omega</i> , <b>2018</b> , 3, 10129-10138	3.9	6

20	Nanotribological Investigation of Polymer Brushes with Lithographically Defined and Systematically Varying Grafting Densities. <i>Langmuir</i> , <b>2017</b> , 33, 706-713	4	5
19	Effect of zinc oxide film morphologies on the formation of <i>Shewanella putrefaciens</i> biofilm. <i>Biointerphases</i> , <b>2017</b> , 12, 011002	1.8	5
18	Effect of surface characteristics on cleaning performance for CIP system in food processing. <i>Energy Procedia</i> , <b>2019</b> , 161, 115-122	2.3	5
17	Cleaning maps: A multi length-scale strategy to approach the cleaning of complex food deposits. <i>Journal of Cleaner Production</i> , <b>2020</b> , 261, 121254	10.3	5
16	Influence of salt on the solution dynamics of a phosphorylcholine-based polyzwitterion. <i>European Polymer Journal</i> , <b>2017</b> , 87, 449-457	5.2	4
15	Combined Experimental and Computational Study of Polyaromatic Hydrocarbon Aggregation: Isolating the Effect of Attached Functional Groups. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 20505-20515	3.9	4
14	Blob Size Controls Diffusion of Free Polymer in a Chemically Identical Brush in Semidilute Solution. <i>Macromolecules</i> , <b>2018</b> , 51, 6312-6317	5.5	4
13	Gastric retention pellets of edaravone with enhanced oral bioavailability: Absorption mechanism, development, and in vitro/in vivo evaluation. <i>European Journal of Pharmaceutical Sciences</i> , <b>2018</b> , 119, 62-69	5.1	3
12	Effect of the electrochemical characteristics of titanium on the adsorption kinetics of albumin.. <i>RSC Advances</i> , <b>2019</b> , 9, 34265-34273	3.7	3
11	Effect of surface roughness and temperature on stainless steel - Whey protein interfacial interactions under pasteurisation conditions. <i>Journal of Food Engineering</i> , <b>2021</b> , 301, 110542	6	3
10	Clustering behaviour of polyaromatic compounds mimicking natural asphaltenes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2020</b> , 603, 125221	5.1	2
9	Probing fibronectin adsorption on chemically defined surfaces by means of single molecule force microscopy. <i>Scientific Reports</i> , <b>2020</b> , 10, 15662	4.9	2
8	Molecular Understanding of Fouling Induction and Removal: Effect of the Interface Temperature on Milk Deposits. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 35506-35517	9.5	2
7	Tribocorrosion behaviour of pure titanium in bovine serum albumin solution: A multiscale study. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2020</b> , 102, 103511	4.1	1
6	Modulating the surface and mechanical properties of textile by oil-in-water emulsion design.. <i>RSC Advances</i> , <b>2022</b> , 12, 2160-2170	3.7	0
5	Characteristics of respiratory microdroplet nuclei on common substrates.. <i>Interface Focus</i> , <b>2022</b> , 12, 20210044	3.9	0
4	Surface-Grafted Poly(ionic liquid) that Lubricates in Both Non-polar and Polar Solvents. <i>ACS Macro Letters</i> , <b>2021</b> , 10, 907-913	6.6	0
3	Lateral diffusion of single poly(ethylene oxide) chains on the surfaces of glassy and molten polymer films. <i>Journal of Chemical Physics</i> , <b>2021</b> , 154, 164902	3.9	

- 2 Molecular diffusion in ternary poly(vinyl alcohol) solutions. *Frontiers of Chemical Science and Engineering*,1 4-5
- 1 Combined Experimental and Computational Study of Polycyclic Aromatic Compound Aggregation: The Impact of Solvent Composition. *Polycyclic Aromatic Compounds*,1-20 1-3